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| APPLICATION NO. | | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------------|--------|-------------|-------------------------|-----------------------|------------------|
| 09/783,367 | | 02/14/2001 | Clifford E. Cotton III | 99-617 | 2308 |
| 719 | 7590 | 07/22/2002 | | | |
| CATERPII | | | EXAMINER | | |
| 100 N.E. ADAMS STREET PATENT DEPT. | | | | MEDLEY, PETER M | |
| PEORIA, IL | 616296 | 490 | | ART UNIT PAPER NUMBER | |
| | | | | 2834 | |
| | | | DATE MAILED: 07/22/2002 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | | |
|---|--|--|--|--|--|--|
| Office Action Summary | 09/783,367 | COTTON, CLIFFORD E. | | | | |
| omooriousii sammary | Examiner | Art Unit | | | | |
| The MAII ING DATE of this communication | Peter M Medley | 2834 | | | | |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply | | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated that the property of the mail of the property of the mail of the property of the mail of the property of the propert | 1. 1.136(a). In no event, however, may a repepty within the statutory minimum of thirty (and will apply and will expire SIX (6) MONTH | (30) days will be considered timely. 4S from the mailing date of this communication. | | | | |
| 1) Responsive to communication(s) filed on _ | | | | | | |
| | ——.· Γhis action is non-final. | | | | | |
| Since this application is in condition for allocalosed in accordance with the practice under Disposition of Claims | wance except for formal matte | ers, prosecution as to the merits is 11, 453 O.G. 213. | | | | |
| 4) Claim(s) 1-19 is/are pending in the applicati | on. | | | | | |
| 4a) Of the above claim(s) is/are withdr | awn from consideration. | | | | | |
| 5) Claim(s) is/are allowed. | | | | | | |
| 6)⊠ Claim(s) <u>1-19</u> is/are rejected. | | | | | | |
| 7) Claim(s) is/are objected to. | | | | | | |
| 8) Claim(s) are subject to restriction and Application Papers | or election requirement. | | | | | |
| 9)☐ The specification is objected to by the Examir | ier. | | | | | |
| 10)⊠ The drawing(s) filed on 14 February 2001 is/a | | ted to by the Evaminer | | | | |
| Applicant may not request that any objection to | | | | | | |
| 11)☐ The proposed drawing correction filed on | is: a) ☐ approved b) ☐ disa | approved by the Examiner | | | | |
| If approved, corrected drawings are required in r | | approved by the Examinor. | | | | |
| 12)☐ The oath or declaration is objected to by the E | | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 13) Acknowledgment is made of a claim for foreig | an priority under 35 U.S.C. § 1 | 19(a)-(d) or (f) | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | , , , | | | | | |
| 1. Certified copies of the priority documer | its have been received. | | | | | |
| 2. Certified copies of the priority documer | | lication No | | | | |
| Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| 14) Acknowledgment is made of a claim for domes | | | | | | |
| a) The translation of the foreign language pr | ovisional application has beer | n received. | | | | |
| Attachment(s) | | | | | | |
| Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Info | nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152) | | | | |
| S. Patent and Trademark Office TO-326 (Rev. 04-01) Office A | ction Summary | Part of Paper No. 3 | | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-5 and 8-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Bryant.

With respect to claims 1-5 and 14-16, the method steps are necessitated by the apparatus limitations below.

With respect to claims 8, 10, and 11, the reference discloses in **fig. 3** a prestressed bender actuator **100**, spring **6**, and support structure.

With respect to claims 9, 13, no patentable weight has been given to the limitation thermally because it refers to the method of making and the courts have stated that "patentability of a product does not depend on its method of production." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

With respect to claims 12, 17, 18, it's the Examiner position that the reference inherently discloses a voltage source for a control signal composed of voltage and current.

With respect to claim 19, the reference further discloses in **fig. 3** a piston as a mass biased by the spring **6**.

Claim Rejections - 35 USC § 103

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bryant.

The reference discloses in **fig. 3** a pre-stressed bender actuator **100**, spring **6**, and support structure.

The reference does not disclose the use of a second spring and piezoelectric device.

The Examiner takes Official Notice that it would have been well known in the art to use multiple actuator systems with similar characteristics for the purpose of providing actuation in multiple dimensions. The court has held that mere duplication of parts has no patentable significance unless a new and unexpected result is produced. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960). It would have been obvious to one of ordinary skill in the art to use multiple actuator systems with similar characteristics for the purpose of providing actuation in multiple dimensions.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter M Medley whose telephone number is 703-305-0494. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3432 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PM July 17, 2002 AUSTOR RAMBREZ SUPERVISOR PROBERT EXAMINER FEORINGLOST CENTER 2800